

## Biology Chapter 6 – Review

Nutrition: taking in useful substances

Photosynthesis: the process by which plants synthesize carbohydrates from raw materials using energy from light



carbon dioxide + water  $\rightarrow$  (sunlight and chlorophyll)  $\rightarrow$  glucose + oxygen

\*\*respiration: glucose + oxygen  $\rightarrow$  carbon dioxide + water + energy

Process:

- 1) Light dependent reactions – water is turned to oxygen (2:1 molecules)
  - Tested through using isotopes of  $\text{O}_2$  for water and carbon dioxide; oxygen contained isotope of oxygen that was used for water
- 2) Light independent reactions – carbon dioxide and water is turned to glucose

Chlorophyll: the pigment that makes plants look green

- Can absorb solar energy, combine carbon dioxide with water to make glucose
- Requires magnesium ions
- Converts light energy to chemical energy

Uses of glucose

For energy:

- For active transport (moving mineral ions to root hairs)
- Building proteins by amino acids
- (energy is released from glucose by respiration)

Stored as starch:

- Lots of glucose molecules are linked to form starch
- They are stored in the leaf; starch molecules are insoluble in water
  - o They are not involved in the chemical equations taking place inside the cells
  - o Do not affect the concentration of the solutions, so water does not enter/leave by osmosis
- Can quickly and easily be broken down to glucose molecules when needed

Changed to sucrose for transport:

- Glucose is changed to sucrose (larger molecules) and it is carried to other parts through phloem tubes
  - o Only leaves make glucose but all parts require it
- Once it reaches its destination, it changed back to glucose and is used in respiration

To make cellulose to build cell walls:

- Hard to be broken down to glucose
  - o Function of the cell wall is to support the cell

Used to make nectar to attract pollinators:

- Plants need insects, birds and bats to help them sexually reproduce

Used to make proteins and other substances:

- For example, chlorophyll (requires magnesium and nitrate ions \*through active transport, which needs energy\*)

# Biology Chapter 6 Study

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